

HSP 65 - M.T.  
 HSP 60 - RAT  
 HSP 60 - HUMAN

Consensus

1 6 25  
 -----MAKTI AYDEEARRGL ERGLNALADA  
 MLRLPTVLRQ MRPVSRALAP HLTRAYAKDV KFGADARALM LQGVDLLADA  
 MLRLPTVFRQ MRPVSRVLAP HLTRAYAKDV KFGADARALM LQGVDLLADA

HSP 65 - M.T.  
 HSP 60 - RAT  
 HSP 60 - HUMAN

Consensus

26 75  
 VKVTLGPKGR NVVLEKKWGA PTITNDGVSI AKIEIELEDPY EKIGAELVKE  
 VAVTMGPKGR TVIIEQSWGS PKVTKDGVTV AKSIDLKDKY KNIGAKLVQD  
 VAVTMGPKGR TVIIEQSWGS PKVTKDGVTV AKSIDLKDKY KNIGAKLVQD  
 V-VT-GPKGR -V--E--WG- P--T-DGV-- AK-I-L-D-Y --IGA-LV--

6-7(31-52 AA)

HSP 65 - M.T.  
 HSP 60 - RAT  
 HSP 60 - HUMAN

Consensus

76 125  
 VAKKTDVAG DGTTTATVLA QALVREGLRN VAAGANPLGL KRGIKEKAVK  
 VANNTNEEAG DGTTTATVLA RSIAKEGFEK ISKGANPVEI RRGVMLAVDA  
 VANNTNEEAG DGTTTATVLA RSIAKEGFEK ISKGANPVEI RRGVMLAVDA  
 VA--T---AG DGTTTATVLA -----EG--- ---GANP--- -RG---AV--

21 (121-136 AA)

HSP 65 - M.T.  
 HSP 60 - RAT  
 HSP 60 - HUMAN

Consensus

126 174  
 VTETLLKGAK EVETKEQIAA TAAISA.GDQ SIGDLIAEAM DKVGNEGKVIT  
 VIAELKKQSK PVTTPEELAQ VATISANGDK DIGNIISDAM KKVRKGKVIT  
 VIAELKKQSK PVTTPEELAQ VATISANGDK EIGNIISDAM KKVRKGKVIT  
 V---L-K--K -V-T-E-IA- -A-ISA-GD- -IG--I--AM -KVG--GVIT

HSP 65 - M.T.  
 HSP 60 - RAT  
 HSP 60 - HUMAN

Consensus

175 224  
 VEESNTFGLQ LELTEGMRFD RGYISGYFVT DPERQEAVLE DPYILLVSSK  
 VKDGKTLNDE LEIIEGMKFD RGYISPYFIN TSKGQKCEFQ DAYVLLSEKK  
 VKDGKTLNDE LEIIEGMKFD RGYISPYFIN TSKGQKCEFQ DAYVLLSEKK  
 V-----T---- LE--EGM-FD -GYIS-YF-- ----Q---- D-Y-LL---K

31 (181-196 AA)

36 (211-226 AA)

HSP 65 - M.T.  
 HSP 60 - RAT  
 HSP 60 - HUMAN

Consensus

225 274  
 VSTVKDLLPL LEKVIGAGKP LLIIAEDVEG EALSTLVVNK IRGTPFKSVAV  
 ISSVQSIVPA LETANAHRKP LVIIIAEDVDG EALSTLVLNR LKVGLQVVAV  
 ISSIQSIVPA LETANAHRKP LVIIIAEDVDG EALSTLVLNR LKVGLQVVAV  
 -S-----P- LE-----KP L-IIAEDV-G EALSTLV-N- -----VAV

40 (236-251 AA)

45 (265-280 AA)

Fig. 1

HSP 65 - M. T. 323  
 HSP 60 - RAT  
 HSP 60 - HUMAN

Consensus KAPGFGD-RK --L-DMAI-T GG-V--EE-- -L-LE----- -LGK---V-V

HSP 65 - M. T. 324 373  
 HSP 60 - RAT  
 HSP 60 - HUMAN

Consensus TKD-----G -GD---I--R ---I----- --S-Y--EKL -ERLAKL--G

59 (349-364 AA)

HSP 65 - M. T. 374 423  
 HSP 60 - RAT  
 HSP 60 - HUMAN

Consensus VAV-K-G--- -VE--E-K-R --DA-----A AVEEGIV-GG G--LL---P-

63 (373-388 AA)

HSP 65 - M. T. 424 472  
 HSP 60 - RAT  
 HSP 60 - HUMAN

Consensus LD-L-----D ---G--I-K- -L--P---IA -N-G-E---- -EK-----

HSP 65 - M. T. 522  
 HSP 60 - RAT  
 HSP 60 - HUMAN

Consensus -G--A--G-- -----G--D P-KV-R-AL- -AA--A-L-- T-E-VV---P

84 (499-514 AA)

HSP 65 - M. T. 523 540  
 HSP 60 - RAT  
 HSP 60 - HUMAN

Consensus --EK---PG- G-MGGM-----

Fig. 1(continued)

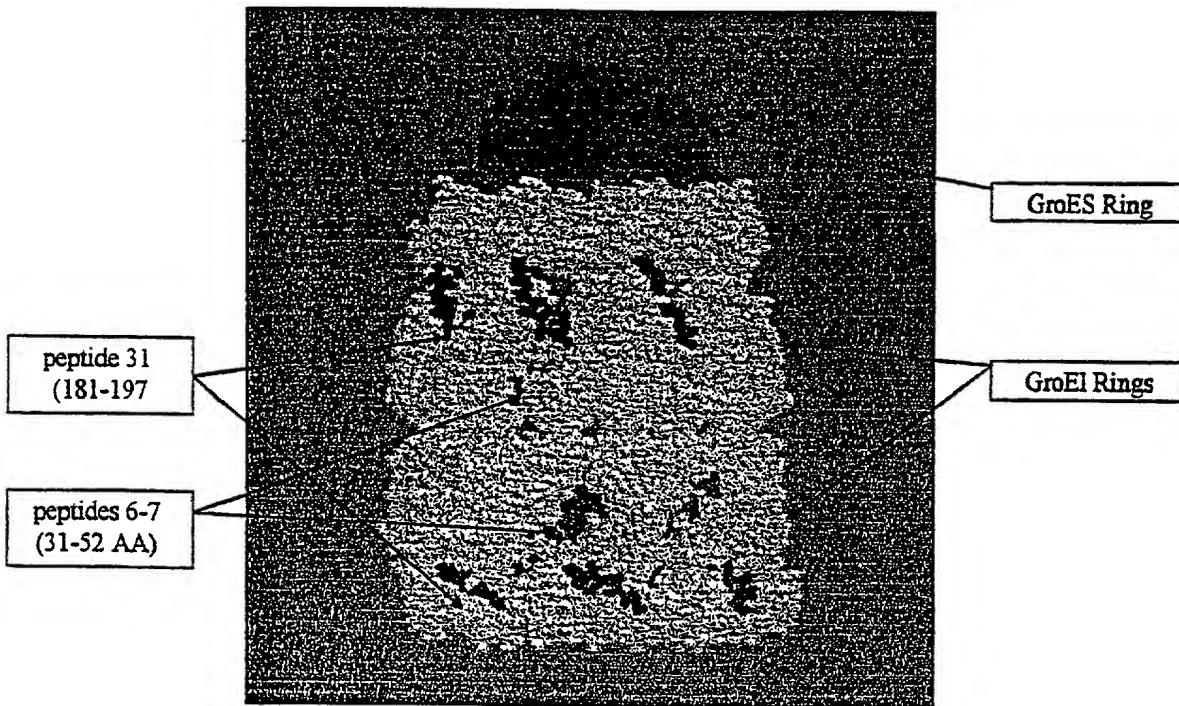


Fig. 2

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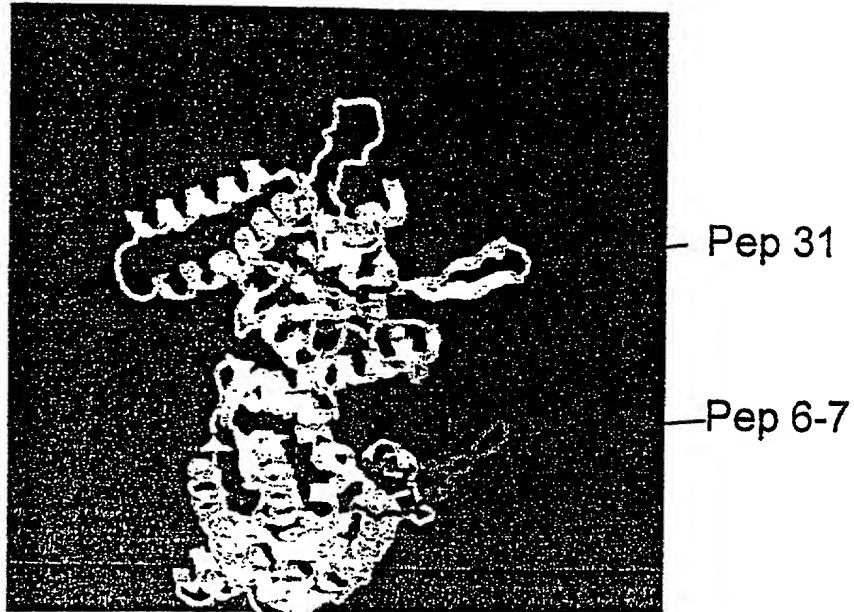


Fig. 3A

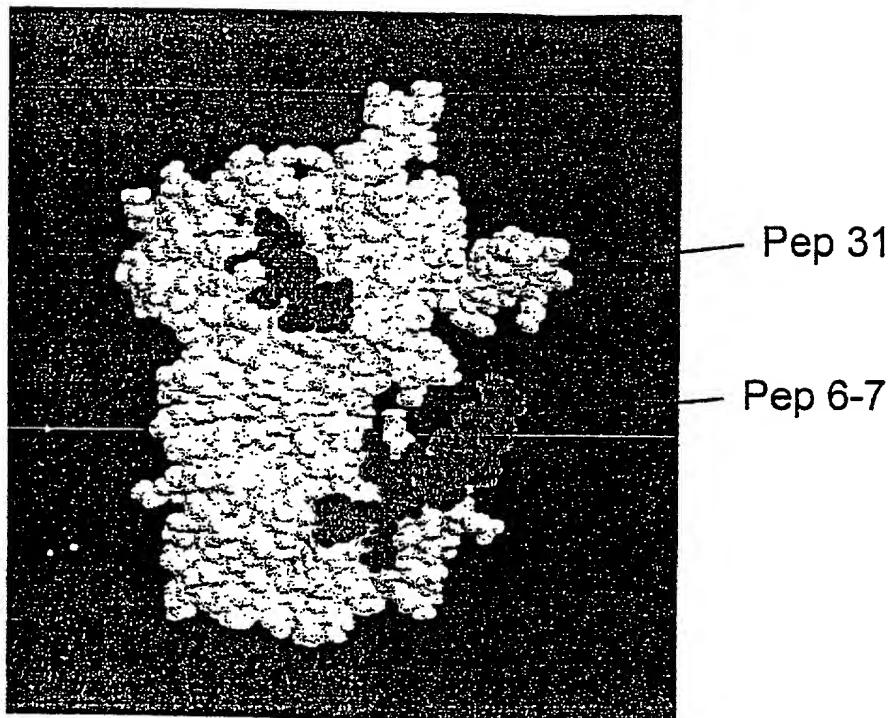


Fig. 3B

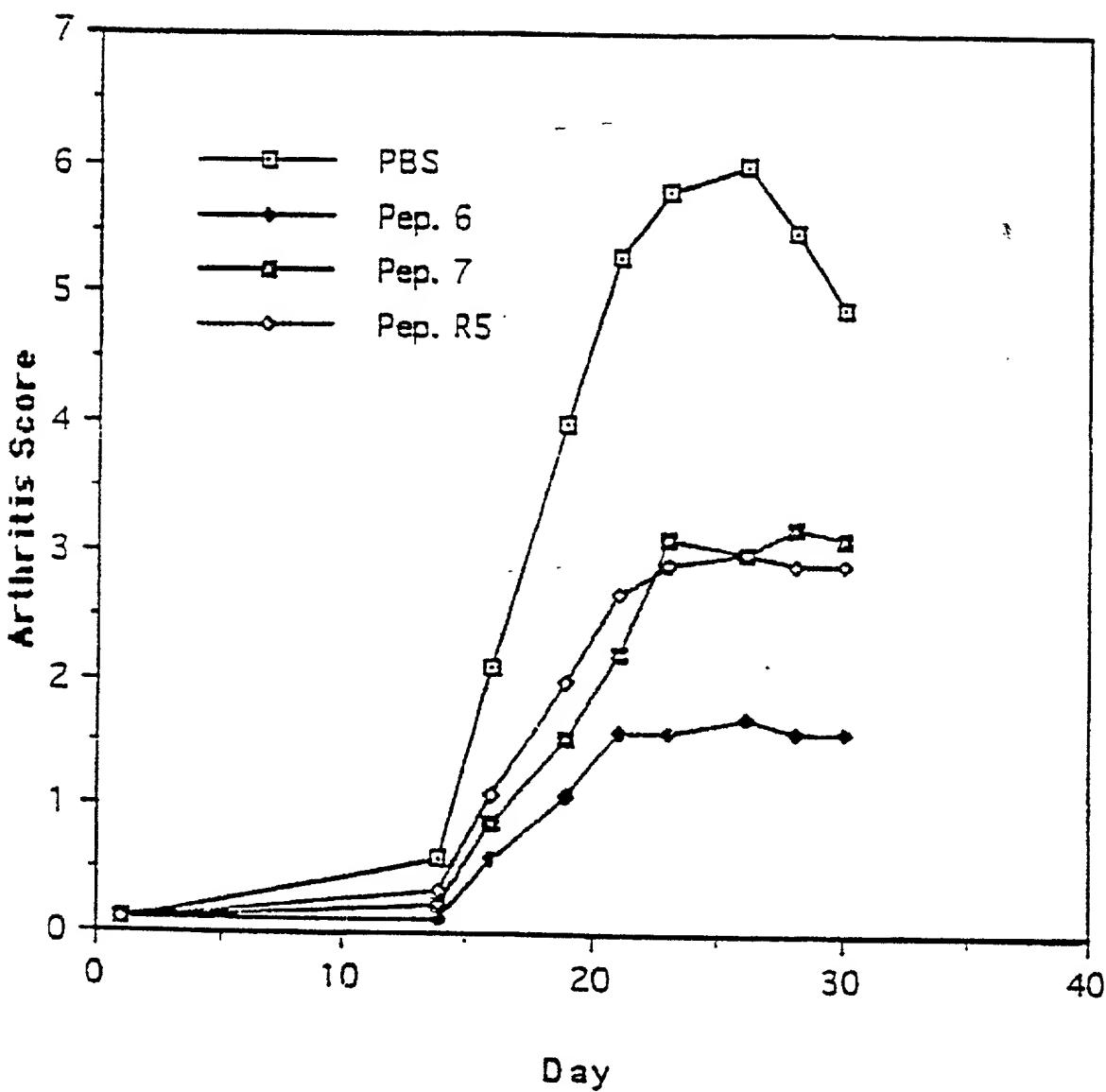


Fig. 4

### The "Protective" Motif

MT	HSP Peptide 6- (31-46)	G P K G R N <u>V</u> V L <u>E</u> K K <u>W</u> <u>G</u> A <u>P</u>
MT	HSP Peptide 7- (37-52)	<u>V</u> V L <u>E</u> K K <u>W</u> <u>G</u> A <u>P</u> T I T N D G
Rat	HSP Peptide 5- (36-55)	T <u>V</u> I I <u>E</u> Q S <u>W</u> <u>G</u> S <u>P</u> K V T K D G V T V

Common Motif

V = = E - - W G - P

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Fig. 5

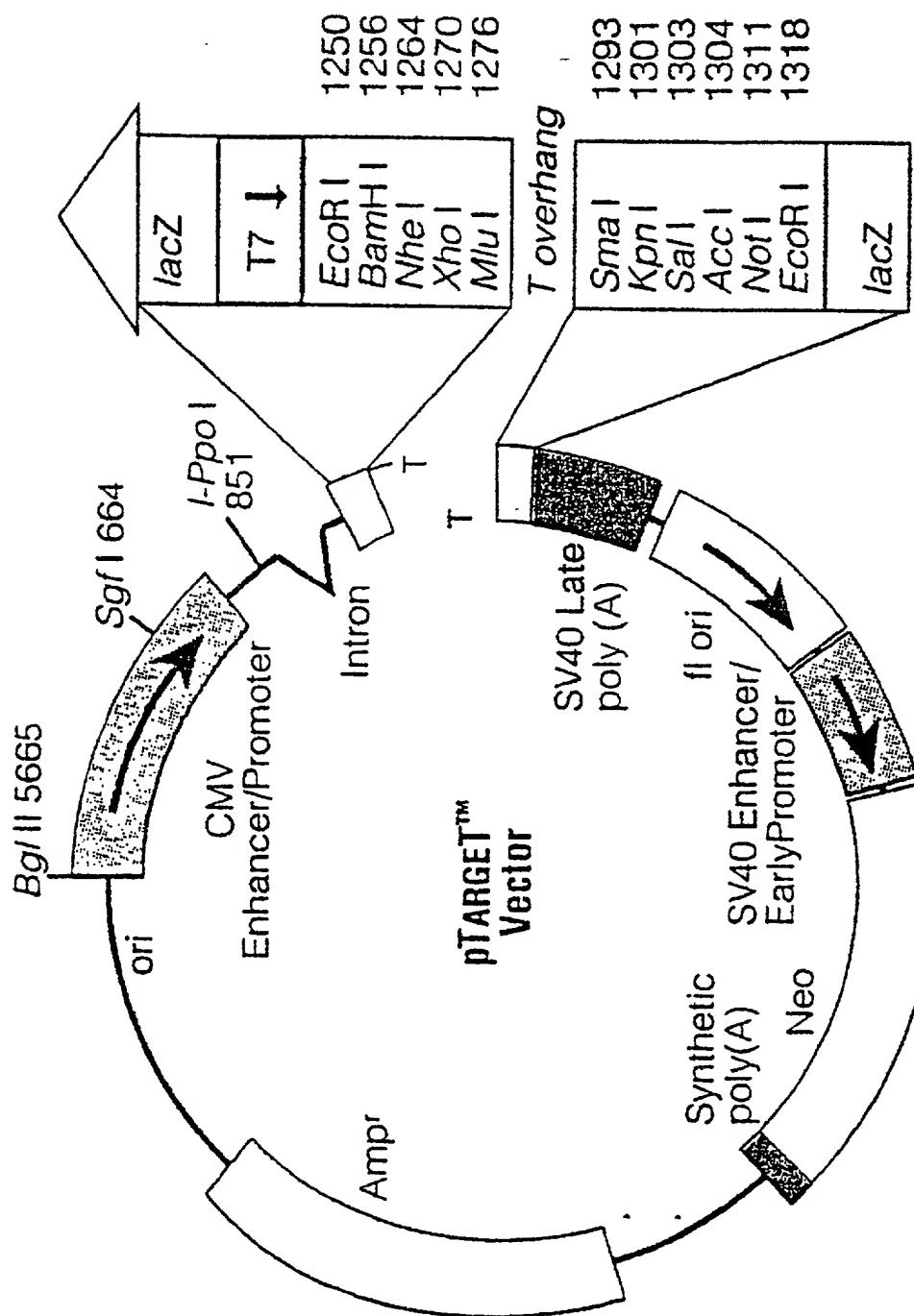


Fig. 6